

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,415,749 B1  
APPLICATION NO. : 09/301004  
DATED : July 9, 2002  
INVENTOR(S) : Oded E. Sturman et al.

Page 1 of 3

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the title page:

In Item [56], U.S. Patent Documents, please insert:

--3,209,737 10/05/1965 Omotehara et al. 123/90  
3,532,121 10/06/1970 Sturman et al. 137/625.4  
3,683,239 08/08/1972 Sturman 317/154  
3,743,898 07/03/1973 Sturman 317/154  
4,396,037 08/02/1983 Wilcox 137/625.65  
4,409,638 10/11/1983 Sturman et al. 361/152  
4,887,562 12/19/1989 Wakeman 123/90.12  
4,930,464 06/05/1990 Letsche 123/90.12  
5,003,937 04/02/1991 Matsumoto et al. 123/90.12  
5,022,358 06/11/1991 Richeson 123/90.12  
5,124,598 06/23/1992 Kawamura 310/30  
5,170,755 12/15/1992 Kano et al. 123/90.17  
5,193,495 03/16/1993 Wood, III 123/90.12  
5,209,453 05/11/1993 Aota et al. 251/57  
5,224,683 07/06/1993 Richeson 251/30.01  
5,237,976 08/24/1993 Lawrence et al. 123/508  
5,248,123 09/28/1993 Richeson et al. 251/29  
5,255,641 10/26/1993 Schechter 123/90.11  
5,275,136 01/04/1994 Schechter et al. 123/90.12  
5,327,856 07/12/1994 Schroeder et al. 123/90.12  
5,335,633 08/09/1994 Thien 123/90.12  
5,339,777 08/23/1994 Cannon 123/90.12  
5,367,990 11/29/1994 Schechter 123/90.12  
5,373,817 12/20/1994 Schechter et al. 123/90.12  
5,410,994 05/02/1995 Schechter 123/90.12  
5,448,973 09/12/1995 Meyer 123/90.12  
5,460,329 10/24/1995 Sturman 239/96--

In Item [56], U.S. Patent Documents, please insert:

--5,471,959 12/05/1995 Sturman 123/90.12  
5,494,219 02/27/1996 Maley et al. 239/88  
5,507,316 04/16/1996 Meyer 137/625.65  
5,577,468 11/26/1996 Weber 123/90.12  
5,598,871 02/04/1997 Sturman et al. 137/625.65  
5,622,152 04/22/1997 Ishida 123/446  
5,628,293 05/13/1997 Gibson et al. 123/446

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

5,638,781 06/17/1997 Sturman 123/90.12  
5,640,987 06/24/1997 Sturman 137/1  
5,673,669 10/07/1997 Maley et al. 123/446  
5,700,136 12/23/1997 Sturman 123/270  
5,713,316 02/03/1998 Sturman 123/90.12  
5,720,261 02/24/1998 Sturman et al. 123/446  
5,813,841 09/29/1998 Sturman 417/446  
5,829,396 11/03/1998 Sturman 123/90.12--

In Item [56], under Other Documents, please insert:

--"Breakthrough in Digital Valves" by Sturman et al. (Sturman Industries, Inc.)  
reprinted from Machine Design pp. 37-40, 42, February 21, 1994  
SAE Paper No. 960581 "Camless Engine" by Schechter et al. (Ford Research Lab)  
February 26, 1996

"Developments in Digital Valve Technology" by Rob Wilson reprint from Diesel  
Progress North American Edition pp. 76, 78-79 April 1997

SAE Paper No. 970248 "Dynamic Model of a Springless Electrohydraulic  
Valvetrain" by Kim et al. (U. of Illinois and Ford Research Company) 1997

SAE paper no. 981029 "Adaptive Lift Control for a Camless Electrohydraulic  
Valvetrain" by Anderson et al. (U. of Illinois and Ford Motor Co.) February 23, 1998--

In Item [56], under Other Documents, please insert

--SAE Paper No. 1999-01-0196 "Application of Digital Valve Technology to Diesel  
Fuel Injection" by Cole et al. (Sturman Industries, Inc.) March 1, 1999

SAE paper No. 1999-01-0825 "Digital Valve Technology Applied to the Control of  
an Hydraulic Valve Actuator" by Misovec et al. (Sturman Industries, Inc.) March 1,  
1999

"A New Generation of Two-Stroke Engines for the Year 2000" by Duret, A New  
Generation of Two-Stroke Engines for the Future? Paris, 1993, pp. 181-194

"Development of New Two-Stroke Engine with Poppet-Valves: Toyota S-2 Engine"  
by Duret, A New Generation of Two Stroke Engines for the Future? Paris, 1993, pp.  
53-62

"Twenty Years of Piaggio Direct Injection Research to Mass Produced Solution for  
Small 2T SI Engines" by Nuti et al., Two-Stroke Engines and Emissions, SAE  
Publication SP-1327, 1998, pp. 65-78

Design and Simulation of Two-Stroke Engines by Blair, SAE Publications No.  
R-161, pp. 1-48

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Diesel Engine Reference Book Second Edition by Challen, SAE Publication No. R-183, pp. 27-71

“Characteristics of Scavenging Flow in A Poppet-Valve Type 2-Stroke Diesel Engine by Using RSSV System”, Progress in Two-Stroke Engine and Emissions Control, SAE Publication SP-1131, 1998, pp. 93-101

NOx Control in Heavy-Duty Diesel Engines – What is the Limit?” In-Cylinder Particulate and NOx Control, SAE Publication No. SP-1326, 1998, pp. 9-20

“Stratified Diesel Fuel-Water-Diesel Fuel Injection Combined with EGR-The Most Efficient In-Cylinder NOx and PM Reduction Technology”, Combustion and Emissions in Diesel Engines, SAE Publication No. Sp-1299, 1997, pp. 39-44

Vehicle and Engine Technology Second Edition by Hiesler, SAE International, London, 1999, pp. 292-308

U.S. Appln. No. 08/712,208 filed 07/21/1998 HYDRAULICALLY CONTROLLED CAMLESS VALVE SYSTEM FOR AN INTERNAL COMBUSTION ENGINE (Sturman)

U.S. Appln. No. 08/799,296 filed 02/13/1997 A CONTROL MODULE FOR CONTROLLING HYDRAULICALLY ACTUATED INTAKE/EXHAUST VALVES AND FUEL INJECTOR (Sturman)

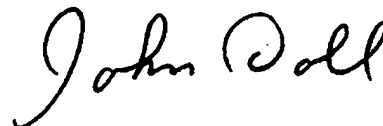
U.S. Appln. No. 08/899,801 filed 07/24/1997 HYDRAULIC ACTUATOR FOR AN INTERNAL COMBUSTION ENGINE (Sturman)--

In Item [56], under Other Documents, please insert:

--U.S. Appln. No 09/026,627 filed 02/20/1998 PULSED-ENERGY CONTROLLERS AND METHODS OF OPERATION THEREOF (North)--

Signed and Sealed this

Twenty-eighth Day of April, 2009



JOHN DOLL  
*Acting Director of the United States Patent and Trademark Office*